The following listing of claims will replace all prior versions, and listing of

claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently amended) A photoconductive encoder wheel, comprising:

a sensor;

a light source disposed perpendicular to the sensor; and

a grating cogwheel having a housing, the grating cogwheel having a plurality

of oblique-cone spaces located around a circumference of the housing and set

concavely with respect to the housing and an incident surface surrounding a

protruding surface, a plurality of protruding wheel parts being divided in equal

arc-shapes and surrounding the grating cogwheel, an inclined surface being

formed between each oblique-cone space and the housing, wherein light from the

light source is refracted to the protruding wheel parts and focused thereby onto the

sensor to generate different phase sequence signals. [[;]]

a sensor;

two light sources perpendicular to each other; and

an incident surface of the grating cogwheel surrounding a protruding surface,

and a plurality of protruding wheel parts being divided in equal arc-shapes and

MR1957-814

Serial Number: 10/734,268

Response to Office Action Dated 22 September 2004

surrounding the grating-cogwheel for focusing light of a light source by the

protruding surface of the grating cogwheel;

wherein the light is refracted to corresponding protruding wheel parts for

focusing again; the light being transmitted to the sensor to generate different phase

sequence signals.

Claim 2 (Currently amended) The photoconductive encoder structure as in

claim 1, wherein the grating cogwheel further comprises housing is a disk-shaped

housing, and the grating cogwheel further comprises a cylinder with a columnar

space therein protrudes protruding from a center of the housing.

Claim 3 (Original) The photoconductive encoder structure as in claim 1,

wherein the grating cogwheel is made of light-transparent materials.

Claims 4 - 5 (Cancelled).

Page 3 of 5